

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/015045

## A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl.<sup>7</sup> G06F17/50

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl.<sup>7</sup> G06F17/50

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	JP 2000-187680 A (Kabushiki Kaisha Oki Business), 04 July, 2000 (04.07.00), Par Nos. [0002] to [0004] (Family: none)	1-4, 19-22

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

\* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search  
11 January, 2005 (11.01.05)

Date of mailing of the international search report  
25 January, 2005 (25.01.05)

Name and mailing address of the ISA/  
Japanese Patent Office

Authorized officer

Facsimile No.

Telephone No.

**INTERNATIONAL SEARCH REPORT**

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PCT/JP2004/015045

**Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)**

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:
  
2. ☐ Claims Nos.:  
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
  
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

**Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)**

This International Searching Authority found multiple inventions in this international application, as follows:

See extra sheet.

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
  
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: 1-4, 19-22

**Remark on Protest**

- ☐ The additional search fees were accompanied by the applicant's protest.  
☐ No protest accompanied the payment of additional search fees.

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Continuation of Box No.III of continuation of first sheet (2)

Claims 1-4, 19-22 (first group of inventions) relate to inventions for providing technical information for understanding the content of the design instruction carried out between a circuit designer and a substrate designer.

Claim 5 (second group of invention) relates to an invention of a printed circuit board design instruction support device which automatically extracting an item as an object by the condition assigned to the keyword such as a clock line among the items such as a circuit part and a wire constituting the circuit diagram.

Claim 6 (third group of invention) relates to an invention of a printed circuit board design instruction support device in which design instruction information is automatically assigned to the items on the circuit diagram via a keyword assigned to the design instruction information in advance so as to notify whether the registered design instruction information is actually on the items such as a circuit part and a wire on the circuit diagram.

Claims 7-8 (fourth group of inventions) relate to inventions of a printed circuit board design instruction support device in which when means for selecting an item selects an item, the object item is displayed in a emphasis mode on the both screens of the circuit diagram and the printed circuit board by cooperation between the circuit design system and the printed circuit board design system.

Claims 9-11 (fifth group of inventions) relates to inventions for checking whether the result after the design inputted by a printed circuit board designer is based on the design instruction and whether the instruction has been approved or not.

Claims 12-15 (sixth group of inventions) relate to an invention of a printed circuit board design support device in which a damping resistor, a bypass capacitor, and an object IC are extracted from the circuit diagram.

Claims 16-18 (seventh group of inventions) relate to an invention of a Web system for providing information according to a request from a printed circuit board design instruction support system and providing a calculation result or storing information.

The first to the seventh group of inventions are not based on a single common technical concept.